

MILITARY SPECIFICATION

CONNECTORS, RECEPTACLE, ELECTRICAL
WATERPROOF (SHELL SIZE 26, FEMALE INSERTS)

1. SCOPE

1.1 Scope.-- This specification covers the detail requirements for the following types of shell-size 26, waterproof, electrical-receptacle connectors with female inserts:

UW2026FC00
UW2026FD00
UW2026FE00
UW2026FF00
UW2026FG00

1.2 Ratings.-- Connectors covered by this specification shall have the electrical ratings specified in table 1.

Table 1 - Electrical ratings

Connector type	Limiting operating voltage (sea level)		Nominal current
	AC	DC	Amperes
UW2026FC00	900	1,250	22
UW2026FD00	500	700	22
UW2026FE00	500	700	11
UW2026FF00	500	700	11
UW2026FG00	900	1,250	73

2. APPLICABLE DOCUMENTS

2.1 The following specifications, of the issue in effect on date of invitation for bids, form a part of this specification:

SPECIFICATIONS

FEDERAL

QQ-B-613 Brass, Leaded and Nonleaded; Plate, Rolled Bar, Sheet and Strip.
QQ-P-416 Plating, Cadmium (Electrodeposited).

MILITARY

MIL-C-12520 Connectors, Plug and Receptacle (Electrical, Waterproof); and Accessories; General Specification for.
MIL-C-12520/18 Connectors, Plug, Electrical, Waterproof (Cathedral Shape, Shell Size 26, Male Inserts).

(Copies of specifications required by contractors in connection with specific procurement functions should be obtained from the procuring agency or as directed by the contracting officer.)

3. REQUIREMENTS

3.1 Requirements.- Requirements shall be in accordance with Specification MIL-C-12520, and as specified herein.

3.2 Design and construction.- Connectors shall be of the design, construction, and physical dimensions specified on figure 1.

3.2.1 Mounting nut.- The mounting nut shall be of the dimensions specified on figure 2. Material shall be brass conforming to Specification QQ-B-613, and shall be cadmium plated conforming to class 1, type II, of Specification QQ-P-416. The resulting finish shall be olive drab in color.

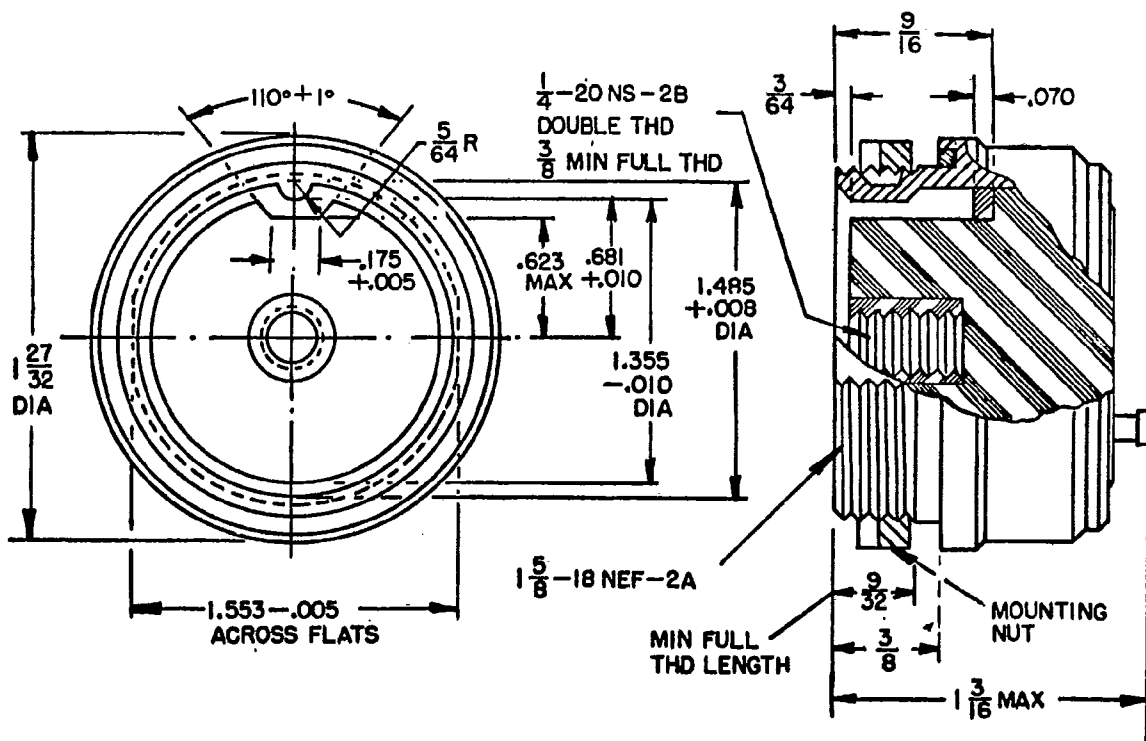
3.3 Voltage drop.- The voltage drop shall not exceed 21 millivolts for insert-arrangements C and D, 20 millivolts for insert-arrangements E and F, and 12 millivolts for insert-arrangement G. (See 4.4).

3.4 Marking.- Marking shall be in accordance with Specification MIL-C-12520, except that connectors shall be marked with letters approximately 1/8 inch high.

4. QUALITY ASSURANCE PROVISIONS

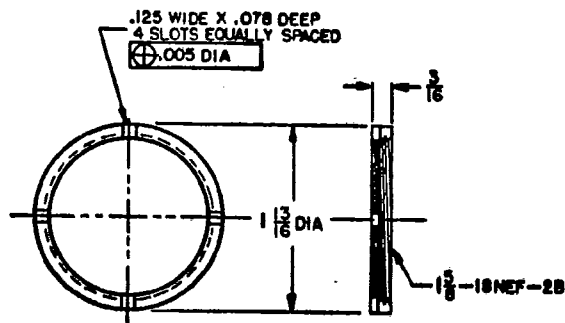
4.1 Sampling and inspection.- Sampling and inspection shall be in accordance with Specification MIL-C-12520, and as specified herein.

4.2 Test and mating plugs.- The test and mating plugs shall be in accordance with Specification MIL-C-12520/18.



1. All dimensions in inches.
2. Unless otherwise specified, tolerances are $\pm 1/64$ on fractions and $\pm .005$ on decimals.

FIGURE 1. Receptacle shell and insert dimensions



1. All dimensions in inches.
2. Unless otherwise specified, tolerances are $\pm \frac{1}{64}$ on fractions and $\pm .005$ on decimals.

FIGURE 2. Mounting nut dimensions.

4.3 Dielectric withstanding voltage.- Connectors with insert-arrangements C and G shall be subjected to a test potential of 2,800 volts root mean square (rms). Connectors with insert-arrangements D, E, and F shall be subjected to a test potential of 2,000 volts rms.

4.4 Voltage drop (see 3.3).- The test current for connectors shall be 20 amperes dc for insert-arrangements C and D, 10 amperes for insert-arrangements E and F, and 60 amperes for insert-arrangement G.

5. PREPARATION FOR DELIVERY

5.1 Preparation for delivery shall be in accordance with Specification MIL-C-12520.

6. NOTES

6.1 Notes.- In addition to the notes specified herein, the notes specified in Specification MIL-C-12520 are applicable to this specification.

6.2 Mating plug connectors.- Mating plug connectors are in accordance with Specification MIL-C-12520/18.

6.2.1 Cover and chain assemblies.- Cover and chain assemblies are in accordance with style 3X of Specification MIL-C-12520/12A "Cover and Chain Assemblies (External Threads, for Use on Waterproof Connectors)".

NOTICE: When Government drawings, specifications, or other data are used for any purpose other than in connection with a definitely related Government procurement operation, the United States Government thereby incurs no responsibility nor any obligation whatsoever; and the fact that the Government may have formulated, furnished, or in any way supplied the said drawings, specifications, or other data is not to be regarded by implication or otherwise as in any manner licensing the holder or any other person or corporation, or conveying any rights or permission to manufacture, use, or sell any patented invention that may in any way be related thereto.

CUSTODIAN

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PREPARING ACTIVITY

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